

VII. *Observations of the Aurora Borealis
made in England by Andr. Celfius, F.
R. S. and Secr. R. S. of Upfal in Sweden.*

SEPT. 13, 1735, in the Town of *Woodford*, six Miles to the North East of *London*, at 11 $\frac{1}{2}$ h. at Night, there appear'd a bright Band, almost parallel to the Horizon; and its Middle was judged to be under η of the Great Bear. At Times another Light shot along the Great Bear; but almost constantly cover'd the Stars γ and δ .

Octob. 4, in *King-street, Bloomsbury,*

	<i>h</i>	<i>'</i>	<i>"</i>	
At	9	22	0	p. m. A Ray or Stream of Light appear'd under the Polar Star perpendicular to the Horizon.
	9	24	13	That Ray disappear'd.
	9	27	6	Two perpendicular Rays shot forth five or six Degrees from the North towards the East.
	9	28	30	A whitish Ray again exactly under the Polar Star.
	9	30	0	That Ray moved Westward.
	9	31	0	'Twas seen under η of the Great Bear.
	9	31	27	It entirely disappear'd.
	9	36	8	A Ray ascending perpendicularly by the Polar Star, and α and β of the Great Bear.
	9	40	0	The Ray seem'd to move gradually under ξ of the Great Bear.
				No

	<i>b</i>	<i>'</i>	<i>"</i>	
At	9	44	0	No more Rays appeared. But whether there were any Remains of Light near the Horizon, or in the West, I could not see, upon account of the neighbouring Houses.

Octob. 11, in London.

	<i>b</i>	<i>'</i>	
At	10	37	p. m. There were two bright Rays under ζ and ϵ of the Great Bear.
	10	39	A Ray between ϵ of the Great Bear and the Polar Star.
	10	39 $\frac{1}{2}$	A Ray in Form of a Pyramid above η of the Great Bear.
			These Rays had not any Motion parallel to the Horizon ; but they
	10	43	entirely disappear'd.

Jan. 11, 1736 in London.

At	10.	0.	p. m. An indifferently bright Arch, pale towards the Edges, appear'd 16 Degrees high : One of the Ends of which descended Eastward under η of the Great Bear : And lucid Streaks appear'd now and then over this Arch.
	11	13	Under this Arch was another very bright Tract parallel to it, five Degrees above the Horizon ; in which Tract there were Rays, that shot from West towards the East.
	11	15	This Arch was very faint.

The

	<i>b</i>	<i>'</i>	
At	11	17	The first Arch became brighter, and the lower Arch was almost blended with the upper, and broken in the middle.
	11	20	The whole Arch was beset with faint Rays.
	11	21	One of the Rays under the Polar Star.
	11	27	No Arch, nor Rays, but bright Tracts dispersed here and there.
	11	36	The Light reached up to the Polar Star, and somewhat higher.
	11	44	A lucid Ray under the Polar Star.
	12	11	The Sky was overcast with Clouds, except one lucid Streak, which appear'd three or four Degrees to the East of the North.

February 16, in Clare-Hall, Cambridge,

At a Quarter past Eight in the Evening, the Moon shining very bright, there appear'd two perpendicular Streams between the great and little Bear

April 3, in London,

	<i>b</i>	<i>'</i>	
At	8	46	I observed a lucid Arch one Degree broad, which extended along the Northern Crown, the <i>Cingulum Boötis</i> , the <i>Coma Berenices</i> , the
			I i lesser

leffer Lion and Cancer, as far as the
smaller Dog.

At 8 49 36. This Arch quite disappear'd : But
at the same time, I saw another broad-
er and brighter Arch under *Cassio-
pea*, seven or eight Degrees high.

In the Observations of *October* 4th, and in the
last, I am certain as to the Time of the Clock : So
that if it has happen'd that others have observed the
same *Phænomena*, the Longitudes of Places may
be determined by them with greater Exactness than
by the Satellites of *Jupiter*, which I take to be the
principal Use that may be made of these Observations,
especially in making Maps of the Northern Coun-
tries, where these Lights more frequently occur.

VIII. *A Letter from Dr. Robert James,
of Lichfield, to Sir Hans Sloane,
Bart. Pr. R. S. containing some Expe-
riments made upon Mad Dogs with
Mercury.*

Lichfield, June 3, 1735.

S I R,

IN pursuance of your Commands, I here give you
an Account of some Experiments that have
been made upon *Mad Dogs* with *Mercury*, which
I apprehend I have some Reason to believe is the